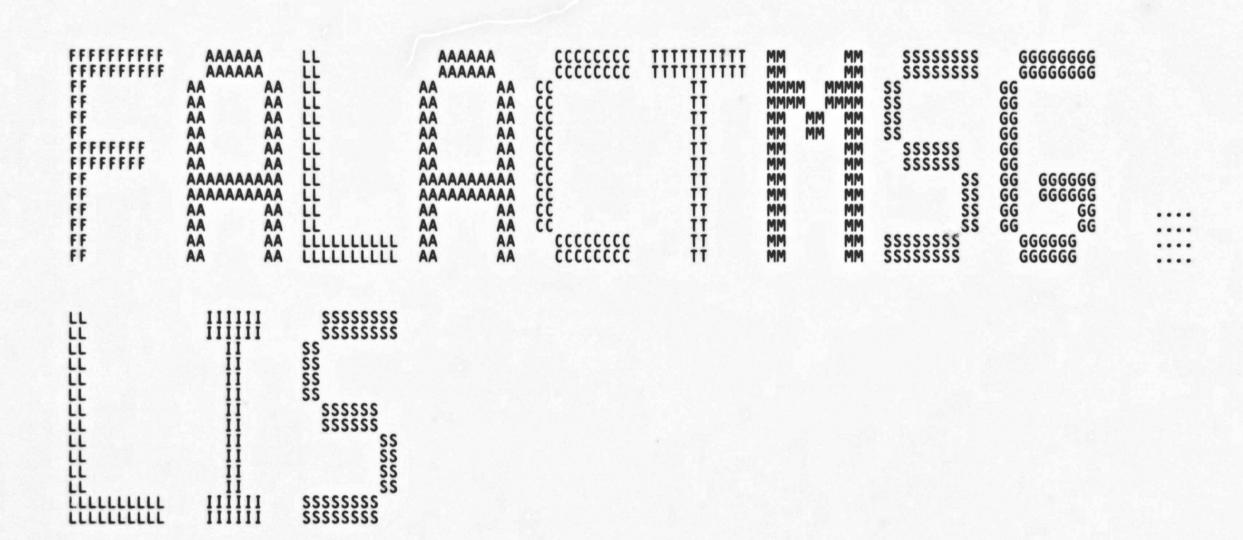


_\$2

Val

HIIIH

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FALACTMSG Table of contents	- STATE TABLE ACTION ROUTINES N 9 16-SEP-1984 01:36:46 VAX/VMS Macro V04-00
(2) 66 (3) 113 (4) 164 (5) 248 (6) 328 (7) 405 (8) 616 (9) 632 (10) 659 (11) 741 (12) 802 (13) 848 (14) 919 (15) 941 (15) 944 (16) 988 (17) 1024	DECLARATIONS ACTION ROUTINES FAL\$DECODE_CNF FAL\$DECODE_ATT FAL\$DECODE_CTL FAL\$DECODE_CON FAL\$DECODE_CON FAL\$DECODE_CMP FAL\$DECODE_KEY FAL\$DECODE_KEY FAL\$DECODE_TIM FAL\$DECODE_TIM FAL\$DECODE_TIM FAL\$DECODE_PRO FAL\$DECODE_NAM SUPPORT ROUTINES MAP_FOP_FIELD STATE_EXIT_ROUTINES

16-SEP-1984 01:36:46 VAX/VMS Macro V04-00 5-SEP-1984 01:16:21 [FAL.SRC]FALACTMSG.MAR;1

Page (1) FAL VO4

```
FALACTMSG - STATE TABLE ACTION ROUTINES
.TITLE
```

B 10

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Facility: FAL (DECnet File Access Listener)

Abstract:

This module contains action routines called by the state table manager.

Environment: VAX/VMS, user mode

Author: James A. Krycka, Creation Date: 16-JUN-1977

Modified By:

V03-007 JAK0136 07-MAR-1984 J A Krycka Support FAL logging options that deal with fields in the DAP Configuration message sent to partner.

V03-006 JAK0118 J A Krycka 12-JUL-1983 Fix bug in processing the DAP KEY field.

V03-005 KRM0104 10-May-1983 K Malik Update symbols to match Dap V7.0 spec.

J A Krycka 29-APR-1983 Make minor enhancements to FAL logging display.

V03-003 KRM0083 KRM0083 K Malik 23-Mar-19
Add support for STMLF and STMCR formats. 23-Mar-1983

0000 0000 0000

16

0000 0000 0000

0000 0000 0000

FAL VO4

FALACTMSG V04-000

```
.SBTTL DECLARATIONS
Include Files:
                                                                                                                                                                                           : Define DAP prologue symbols
: Define DAP message header
: Define DAP system specific field
: Define DAP Configuration message
: Define DAP Attributes message
: Define DAP Access message
: Define DAP Control message
: Define DAP Continue Transfer message
: Define DAP Access Complete message
: Define DAP Access Complete message
: Define DAP Mey Definition message
: Define DAP Allocation message
: Define DAP Date and Time message
: Define DAP Name message
: Define Access Block symbols
: Define Record Access Block sym**
: Define Record Access Block sym**
: Define Allocation XAB symbols
: Define Date and Time XAB symbols
: Define Protection XAB symbols
: Define Revision Date and Time symbols
                                                                     SDAPPLGDEF
SDAPHDRDEF
SDAPSSPDEF
SDAPCNFDEF
SDAPATTDEF
SDAPACCDEF
SDAPCTLDEF
SDAPCONDEF
                                                                       SDAPCMPDEF
                                                                       SDAPKEYDEF
                                                                       SDAPALLDEF
                                                                       SDAPTIMDEF
                                                                       SDAPPRODEF
                                                                       SDAPNAMDEF
                                                                       SDEVDEF
                                                                       SFABDEF
                                                                       SFALWRKDEF
                                                                       SRABDEF
                                                                       SXABDEF
                                                                       SXABALLDEF
SXABDATDEF
                                                                       SXABKEYDEF
                                                                       SXABPRODEF
                                                                                                                                                                                             Define Protection AND Symbols : Define Revision Date and Time symbols
                                                                                                                                                                                                     Define Protection XAB symbols
                                                                       SXABRDTDEF
Macros:
                                                                      None
                          101
                         102
103
104
105
                                                Equated Symbols:
                                                                      ASSUME DAPSQ_DCODE_FLG EQ 0
                                               Own Sturage:
```

D 10

```
16-SEP-1984 01:36:46 VAX/VMS Macro V04-00 
5-SEP-1984 01:16:21 [FAL.SRCJFALACTMSG.MAR;1
```

```
.SBTTL
.PSECT
                                                            ACTION ROUTINES FALSCODE
NOSHR, EXE, RD, NOWRT, BYTE
                                Functional Description:
                                             This module contains action routines invoked by the state table manager (FAL$STATE).
                                            The input parameters and completion codes listed below are applicable for all of these action routines. Note that an action routine may use RO-R7 and AP without restoring them on exit. RO on exit, however, must represent a status code to indicate success/failure of the routine or a true/false condition, as appropriate. This status code is used by the state table manager to advance to the next state.
                                 Calling Sequence:
                                             BSBW
                                                            FAL$name
                                 Input Parameters:
                                                            Address of FAL work area
Address of DAP control block
Address of FAB
                                             R8
R9
                                             R10
                                             R11
                                                             Address of RAB
                                 Implicit Inputs:
                                             None
                     144
145
146
147
                                 Output Parameters:
                                                             Status code
                                             R1-R7
                                                            Destroyed
                      148
                                             AP
                                                            Destroyed
                                 Implicit Outputs:
                      151
                                             None
                                 Completion Codes:
                     156
157
158 : S
159
160 :
161 :
162 :--
                                             RO
                                                            1 = success; 0 = failure
                                 Side Effects:
                                             None
```

E 10

F 10

```
.SBTTL FALSDECODE_CNF
                                       164
                                                   166
                                                             Process the Configuration message which has been received and validated.
                                                             Return a Configuration message to partner and determine the DAP buffer size to use which is the smaller of partner's buffer size and FAL's buffer size.
                                                   169
170
171
172
173
174
175
177
178
179
180
181
                                                         FALSDECODE_CNF::
$SETBIT #FALSV_CNF_MSG,(R8)
$CLRBIT #FALSV_ATT_MSG,(R8)
                                                                                                                                    Entry point
                                                                                                                                    Denote Configuration message received
                                                                                                                                      and discard any previous Attributes
                                                                                                                                    message
Get FAL's buffer size (i.e., largest
I/O buffer size supported by process)
                 18 A8
                               30
                                                                        MOVZWL FALSW_QIOBUFSIZ(R8),R7
                                                                        BBC #FAL$V_USE_DBS,(R8),-
SEND_CRF
MOVZWL FAL$W_USE_DBS(R8),R7
                               E1
                                                                                                                                    Branch to use calculated buffer size
                               30
                      68
     57
              00A0
                                                                                                                                    Override with user specified value
                                                          ; Build and send Configuration message to partner.
                                                   184
185
186
187
                                                          SEND_CNF:
                                                                                      #FAL$V_LAST_MSG,(R8)
#DAP$K_CNF_MSG,R0
FAL$BUILD_HEAD
R7,(R3)+
                                                                        $SETBIT
                                                                                                                                    Declare this last message to block
                                                    188
              50
                                                                         MOVL
                                                                                                                                    Get message type value
                               D30099010999010
                                                    189
190
                   FFE1'
                                                                         BSBW
                                                                                                                                     Construct message header
                                                                                                                                    Store BUFSIZ field
Store OSTYPE field
             83
83
68
00A2
83
83
83
83
                                                                         MOVW
                                                                                      R7,(R3)+
#DAP$K_VAXVMS,(R3)+
#DAP$K_RMS32,(R3)+
#FAL$V_USE_SYS,(R8),2$
FAL$W_USE_SYS(R8),-2(R3);
#DAP$K_VERNUM_V,(R3)+
#DAP$K_ECONUM_V,(R3)+
#DAP$K_USRNUM_V,(R3)+
#DAP$K_USRNUM_V,(R3)+
#DAP$K_USRNUM_V,(R3)+
#FAL$V_USE_VER,(R8),4$
FAL$L_USE_VER,(R8),4$
FAL$L_USE_VER,(R8),4$
FAL$L_USE_VER,(R8),4$
FAL$L_USE_VER,(R8),4$
                                                   191
192
193
                       07
                                                                         MOVB
                      03
3A
07
                                                                         MOVB
                                                                                                                                    Store FILESYS field
                                                                         BBC
                                                                                                                                    Branch to use standard values
         06
                                                                                                                                    Override with user specified values Store VERNUM field
                                                   194
195
FE A3
                                                                         MOVW
                                                          25:
                                                                         MOVB
                                                   196
                                                                                                                                    Store ECONUM field
Store USRNUM field
                      00
00
04
38
00
                                                                         MOVB
                                                                         MOVB
                                                    198
                                                                                                                                    Store DECVER field
                                                                         MOVB
                                                    199
                                                                         BBC
                                                                                                                                    Branch to use standard values
              00A4
83
                                       0042
                                                                         MOVL
                                                                                                                                    Override with user specified values
                                                                                                                                    Store USRVER field
                                                                                       #DAPSK_USRVER_V, (R3)+
                                                          45:
                                                                         MOVB
                                       004B
004B
004B
004B
004B
004B
004B
                                                              Construct the system capabilities field.
                                                              Also, check the debugging options to disable message blocking and DAP tevel CRC checking (after any user specified system capabilites bitmasks, if any,
                                                              have been applied).
                                                   210
211
212
213
214
215
216
217
218
219
                                                                                      #DAP$K_SYSCAP1_V,R1
#DAP$K_SYSCAP2_V,R2
       EFF67DF7 8F
00001962 8F
                                                                                                                                    Get VAX supported capabilities
                                                                         MOVL
                                DO
                                                                         MOVL
                                                                                                                                      quadword bitmask
                                                                                                                                      ----- process debugging options -----
                                       0059
0050
0062
0066
0068
006F
                                                                                      #FALSV USE SC1, (R8), 6$
FALSU USE SC1 (R8), R1
#FALSV USE SC2, (R8), 8$
FALSU USE SC2(R8), R2
#FALSV DIS MBK, (R8), 10$
#<<1adapsv Msgblk>!-
                                                                                                                                    Branch to use standard values
Override with user specified values
                                                                         BBC
              68
00A8
                                E1
DO
E1
DO
E1
CA
                       (8
3D
                                                                         MOVL
                                                                                                                                    Branch to use standard values
Override with user specified values
Is DAP message blocking disabled?
         05
                                                          6$:
                                                                         BBC
              OOAC
                                                                         MOVL
                                                                        BBC BICL2
                                                          85:
                                                                                                                                     Yes, clear message blocking bits in
       00140000
                                                                                                                                      system capabilities bitmask for Configuration message to transmit
                                                                                          <1aDAP$V_BIGBLK>!-
                                                    220
                                                                                       0>,R1
```

FALACTMSG V04-000			- ST/	ATE TABLE A DECODE_CNF	CTION RO	UTINES	G 10 16-SEP-1984 01 5-SEP-1984 01	:36:46 VAX/VMS Macro VO4-00 Page 6 :16:21 [FAL.SRC]FALACTMSG.MAR;1 (4)
	28 A9	00140000 8F	CA	0076 221 007E 222 007E 223		BICL2	#<<1@DAP\$V_MSGBLK>!- <1@DAP\$V_BIGBLK>!- O>.DAP\$Q_STSCAP(R9)	; Also, clear message blocking bits in ; system capabilities bitmask ; received from partner
		09 68 30	E1	007E 223 007E 224 0082 225 0086 226 0086 227	10\$:	SCLRBIT SCLRBIT	O>,DAPSQ_STSCAP(R9) #FALSV_DIS_CRC,(R8),20\$ #DAPSV_DAPTRC,R1 #DAPSV_DAPCRC,- DAPSQ_SYSCAP(R9)	; Is file level CRC checksum disabled? ; Yes, clear bits in both XMT and RCV ; system capabilities fields ;
		FF72' FF6F' FF6C'	30 30 30	008B 229 008E 230 0091 231	20\$:	BSBW BSBW BSBW	FALSCVT BN8 EXT FALSBUILD TAIL FALSTRANSMIT	; finish debugging options ; Store SYSCAP as an extensible field ; Finish building message ; Send Configuration message
				0094 234 0094 235 0094 236	Deter	mine the the sma	'agreed upon' DAP buffe ller of partner's buffer	r size to use and save this value. size and FAL's maximum buffer size.
		40 A9 1A A8 06 57 40 A9	В0	0094 236 0094 237 0094 238 0097 239 0099 240 009B 241 009F 242 009F 243 00A1 244		MOVW	DAPSW_BUFSIZ(R9),- FALSW_DAPBUFSIZ(R8)	; Assume we'll use partner's ; buffer size
		57 40 A9	13 B1	0099 240 009B 241 009F 242		BEQL CMPW	DAP\$W_BUFSIZ(R9),R7	<pre>; Branch if partner has unlimited space ; Compare partner's buffer size with ; our buffer size</pre>
		1A A8 57	1B B0	009F 243 00A1 244 00A5 245	30\$:	BLEQU	40\$ R7,FAL\$W_DAPBUFSIZ(R8)	; Branch if partner has less capacity ; We guessed wrong, so we'll use
		04E4	31	00A5 246	40\$:	BRW	EXIT_SUCCESS	; our buffer size ; Exit state with success

(5)

Page

44 A9

45 A9

01F4 C8

1D AA

1F AA

1E AA

3C AA 36 AA 10 AA 47

1E

46

0A 69

1E AA

04

10

02

OOAC OOAC

OOAC

00B

00B

00B

00B

00B

90 8A

B0 B0 D0 16-SEP-1984 01:36:46 VAX/VMS Macro V04-00 5-SEP-1984 01:16:21 [FAL.SRCJFALACTMSG.MAR;1

.SBTTL FALSDECODE_ATT Process the Attributes message which has been received and validated. Update the FAB and FHCXAB with information from this message. FAL\$DECODE_ATT:: : Entry point \$SETBIT #FAL\$V_ATT_MSG,(R8) ; Denote Attributes message received Save the DAP DATATYPE field for use later. MOVB DAP\$B_DATATYPE(R9), FAL\$B_DATATYPE(R8) Process the DAP ORG, RFM and RAT fields. ASSUME DAP\$K_SEQ EQ FAB\$C_SEQ ASSUME DAP\$K_REL EQ FAB\$C_REL ASSUME DAP\$K_IDX EQ FAB\$C_IDX MOVB DAP\$B_ORG(R9), FAB\$B_ORG(R10) DAP\$K_UDF EQ FAB\$C_UDF DAP\$K_FIX EQ FAB\$C_FIX DAP\$K_VAR EQ FAB\$C_VAR DAP\$K_VFC EQ FAB\$C_VFC DAP\$K_STM EQ FAB\$C_STM DAP\$K_STMLF EQ FAB\$C_STMLF DAP\$K_STMCR EQ FAB\$C_STMCR ASSUME ASSUME ASSUME ASSUME ASSUME ASSUME ASSUME MOVB DAPSB_RFM(R9),FABSB_RFM(R10) DAPSV_FTN EQ FABSV_FTN DAPSV_CR EQ FABSV_CR DAPSV_PRN EQ FABSV_PRN ASSUME ASSUME ASSUME ASSUME DAPSV_BLK EQ FABSV_BLK DAP\$B_RAT(R9), FAB\$B_RAT(R10) #DAP\$M_EMBEDDED,- ; Ig BICB2 Ignore this bit FABSB_RAT(R10) #DAP\$V_VAXVMS,(R9),10\$; Branch if partner is VAX/VMS DAP\$B_RFM(R9),#DAP\$K_STM; Branch if not stream format BBS CMPB BNEQ MOVB #FAB\$M_CR,FAB\$B_RAT(R10); If it is, declare cc to be implied

Process the DAP BLS, MRS, ALQ, BKS, FSZ, MRN, and DEQ fields.

10\$: MOVW DAP\$W_BLS(R9), FAB\$W_BLS(R10)
MOVW DAP\$W_MRS(R9), FAB\$W_MRS(R10)
MOVL DAP\$L_ALQ1(R9), FAB\$C_ALQ(R10)

	- STATE	TABLE ACTION ROUTINES 1 10 16-SEP-1984 01:36:46 VAX/VMS Macro V04-00 Page 8 5-SEP-1984 01:16:21 [FAL.SRC]FALACTMSG.MAR;1 (5)	-
3E AA 50 A9 3F AA 51 A9 38 AA 58 A9 14 AA 54 A9	90 00E 90 00E 00 00E 80 00F	305 MOVB DAP\$B_BKS(R9), FAB\$B_BKS(R10) 7 306 MOVB DAP\$B_FSZ(R9), FAB\$B_FSZ(R10) 7 307 MOVL DAP\$L_MRN(R9), FAB\$L_MRN(R10) 8 308 MOVW DAP\$W_DEQ1(R9), FAB\$W_DEQ(R10)	
01F8 C8 51 0342	00F0 00F0 00F0 00F0 00F0 00F0 00F0	310; 311; Process the DAP FOP field after saving it for use later. 312; 313 314 MOVL DAP\$L_FOP1(R9),R1; Get DAP FOP bits and A 315 MOVL R1,FAC\$L_FOP(R8); save field for use later BSBW MAP_FOP_FIELD; Update FOP in FAB	
70 A9 02F4'C8 0481	0100 0100 0100 0100 0100 80 0100 31 0100	318; 319: Process the DAP LRL field. 320: This is the only FHCXAB field that is input to RMS, and then only for the 321: \$CREATE function where the record format is variable or VFC. 322: 323 324 MOVW DAP\$W_LRL(R9),- FAL\$L_FHCXAB+XAB\$W_LRL(R8) BRW EXIT_SUCCESS; Exit state with success	

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J 10

			- ST FALS	ATE TAE	ACC AC	TION	ROUTINES	K 10	16-SEP-198 5-SEP-198	84 01: 84 01:	36:46 16:21	VAX/VMS Macro V04-00 [FAL.SRC]FALACTMSG.MAR;1	Page
17	AA	52	90	0162 016A 0172 017A 017E	385 386 388 389 390	20\$:	SMAPBIT SMAPBIT SMAPBIT MOVB	DAPSV DAPSV R2, FAB	SHRUPD, FAB\$V JPI, FAB\$V_UP! NIL, FAB\$V_NIL BB_SHR(R10)	SHRUP	: Map	SHRUPD bit UPI bit NIL bit te SHR field in FAB	
	40	••	00	017E 017E 017E 017E	391	Use						e table value.	
	10	AS	90	01/E	394		MOVB	DAPSB_	ACCFUNC(R9),		Stor	e new state transition value	
0A	40 10 0084	00	E1	0183 0185 0189	393 393 394 396 396 398		BBC \$SETBIT	#DAPSU	VALUE(R8) LOAD,- SSP_FLG(R9),: SQD,FAB\$L_FC	30\$ 0P(R10	Bran fun	ch if no system specific ction modifier found	
				018E	399		002.01.				; Force	e sequențial file transfer	
	FF 10	8F A8	90	018E 018E 0191	398 399 400 401 402		MOVB	#DAPSK	LOAD,- VALUE(R8) UCCESS		: Make	e for efficiency new state transition value load image function	
	03	SF6	31	0193	403	30\$:	BRW	EXIT_SI	UCCESS			state with success	

10 (6)

FAL VO4

```
.SBTTL FALSDECODE_CTL
                                          408
409
410
411
                                                  Process the Control message which has been received and validated. Update the RAB with information from this message.
                                                  FALSDECODE_CTL::
                                                                                                                               : Entry point
                                                     Save the DAP DISPLAY field for use later if we're not in a wildcard context. In wildcard file retrieval, for example, the DAP Access message is sent only once, thus FAL$W_DISPLAY must reflect the DISPLAY value from the Access message on subsequent file opens. Since the Control message functions of DISPLAY and EXTEND are not valid in a wildcard context (which require FAL$W_DISPLAY to be updated), this special check is an acceptible solution to a wildcard retrieval problem.
                                          0A
05
54 A9
70 A8
                                                                                #FAL$V_WILD,(R8),-
RAC_FIELD
DAP$W_DISPLAY2(R9),-
FAL$W_DISPLAY(R8)
                     E0
                                                                  BBS
                                                                                                                                ; Branch if wildcard operation
                     B0
                                                                 WVV
                                                                                                                                  Save display message bitmask in
                                                                                                                                ; FAL work area
                                                      Process the DAP RAC field.
                                                      In addition to normal RMS-32 RAC information, this field specifies whether
                                                      the access is to be in:
(1) file transfer mode or record transfer mode
                                                          (2) block I/O mode or record I/O mode
                                                      Note: If the RAC field is not present in the Control message, then the default
                                                                  action is to use the previous value.
                                                                                DAP$K_SEQ_ACC EQ 0
DAP$K_KEY_ACC EQ 1
DAP$K_RFA_ACC EQ 2
DAP$K_SEQ_FILE EQ 3
DAP$K_BLK_VBN EQ 4
DAP$K_BLK_FILE EQ 5
                                                                  ASSUME
                                                                  ASSUME
                                                                  ASSUME
                                                                  ASSUME
                                                                  ASSUME
                                                                  ASSUME
                                                                                                                                   Process record access field
Branch if RAC field was explicitly
specified
                                                  RAC_FIELD:
                                                                                #DAP$V_RAC,-
DAP$W_CTLMENU(R9),10$
FAL$B_RAC(R8),-
DAP$B_RAC(R9),-
FAL$B_RAC(R8)
SELECTOR=DAP$B_RAC(R9)-
06 44 A9
01F7 C8
46 A9
46 A9
01F7 C8
                                                                  BBS
                            01A1
01A4
01A8
01AA
01AD
01B0
01B0
01B0
01B0
01B0
01B0
                     90
                                                                  MOVB
                                                                                                                                   If not, use previous value saved in
                                                                                                                                    FAL work area
                     90
                                                  10$:
                                                                                                                                   Save currently specified value as
                                                                  MOVB
                                                                                                                                   previous value for next-time-thru Dispatch on DAP record access mode:
                                                                 SCASEB
                                                                                 DISPL=<-
20$-
20$-
20$-
                                                                                                                                      Sequential record access
                                                                                                                                     Random access by key value
Random access by RFA
Sequential file transfer
                                                                                                                                     Block I/O access by VBN
Block I/O sequential file transfer
```

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	- STATE TABLE	E ACTION ROUTINES M 10	16-SEP-1984 01:36:46 5-SEP-1984 01:16:21	VAX/VMS Macro VO4-00 Page [FAL.SRC]FALACTMSG.MAR;1	12
	01B0 4 01C1 4 01C1 4 01C1 4 01C1 4	466 ;		k I/O mode is specified. operations.) k I/O flags as appropriate	
	01C1 4 01C1 4 01C1 4 01C1 4 01C1 4	468 ; for the access mode in 469 ; 470 ; 471	Q_ACC EQ RAB\$C_SEQ Y_ACC EQ RAB\$C_KEY A_ACC EQ RAB\$C_RFA		
46 A9 1E AB	90 01C1 4 01C4 4 01C6 4	475 20\$: MOVB DAP\$B_R/ 476 RAB\$B_R/ 477 \$CLRBIT #FAL\$V_F	C(R9),- ; Sto C(R11) ; (e TM,(R8) ; Say	re record access mode in RAB ither SEQ, KEY, or RFA) record transfer mode	
1E AB 00	11 01CA 4 90 01CC 4 01D0 4 01D4 4 11 01D8 4	4/9 505: MOVB #RABSC_S	EQ,RAB\$B_RAC(R1%);Set TM,(R8);Say BLK_IO,(R8);Say	record access mode to SEQ in RAB file transfer mode record I/O mode	
04	01DA 4 11 01DE 4 01E0 4	\$SETBIT #FAL\$V = \$CLRBIT #FAL\$V = \$CLRBI	TM.(R8) ; Say	record transfer mode file transfer mode block I/O mode	
	01E8 4 01E8 4 01E8 4	491: Note: If the ROP field 492: action is to use 493:-	eld.	e Control message, then the default	
03 44 A9 07 51 50 A9 02F7	01EA 4 01EC 4 01EC 4 00 01ED 4 30 01F1 5	494 495 ROP_FIELD: 496 BBC #DAP\$V_F 497 DAP\$W_C1 498 KRF_FIEL 499 MOVL DAP\$L_RO 500 BSBW MAP_ROP	LMENU(R9),- ; spo DP(R9),R1 ; Get	cess record options field nch if ROP field was not explicitly ecified making previous ROP value e current value DAP ROP bits ate ROP options in RAB	
	01F4 01F4 01F4 01F4 01F4 01F4 01F4 01F4	MOVL DAP\$L ROSON BSBW MAP_ROP 501 502 :+ 503 : Process the DAP KRF five 504 : This field is applicate 505 : 506 : Note: If the KRF field 507 : action is to use 508 :- 509 510 KRF_FIELD:	eld. le only for indexed f	iles.	
	01F4 01F4 01F4 01F4	506: Note: If the KRF field 507: action is to use 508:-	is not present in the the previous value.	e Control message, then the default	
44 A9 05 47 A9 35 AB	01F6 01F8 01F8 90 01F9 01FC	BBC #DAPSV K	RF,- ; Brai LMENU(R9),- ; spo D ; the F(R9),- ; Upda	cess key of reference field nch if KRF field was not explicitly ecified making previous KRF value current value ate key of reference value in RAB caningful only for indexed files)	
	OIFE S	517 :+ 518 : Process the DAP KEY fi	eld.		

N 10

FALACTMSG V04-000 FALA

				0244	79 . RMS	field cor requires	ntains a record file ac that the RFA be a 6-by	ddress yte un	s (RFA). nsigned integer value.
06	00	61 10 AB 07	2C 11	0244 0244 0249 024B	860 ; 881 882 40\$: 583	MOVC5 BRB	RO,(R1),#0,#6,- RAB\$W_RFA(R11) 60\$:	Store RFA value directly in RFA field of RAB (zero extended to 6-bytes) Join common code
				024D 024D	88 : RMS	field con requires	ntains virtual block nu that the VBN be a 4-by	umber yte un	(VBN). nsigned integer value.
04	00	61 50 38 AB	20	0252	89 ; 990 991 50\$:	MOVC5	RO.(R1),#0,#4,- RAB\$L_BKT(R11)	;	Store VBN value directly in BKT field of RAB (zero extended to longword)
				0254 0254 0254 0254	94 : 95 : Commo 96 : does	on code t not exce	o verify that the leng ed the size of the bui	gth of ffer u	the string in the DAP KEY field used to store the string.
		OF	18	0254	98 60\$:	BLEQU	90\$:	Done if all SRC bytes are copied
		81	95	0256 0256	500 501 70\$: 502 503	TSTB	(R1)+		(i.e., SRC size LEQU DST size) Error if any unmoved bytes are
		F9 50	12	0258	502	BNEQ	80\$:	non-zero
		06	11	025A 025D	04	SOBGTR BRB	R0.70\$		Continue until all extra bytes are checked
		F9 50 06 FD9E' 0324	95 12 F5 11 30 31	025F 6	05 80\$: 06 07	BSBW BRW	FALSUNS_KEY EXIT_FAILURE	1	Return error in Status message Exit state with failure
				0265 0265 0265	: 80	the CTLFU	INC field value as the	next	state table value.
		40 A9	90	0265 6	12 90\$:	MOVB	DAPSB_CTLFUNC(R9),-	;	Store new state transition value
		10 A8 031F	31	0268 026A	13	BRW	FALSB_VALUE(R8) EXIT_SUCCESS	;	Exit state with success

FALA

Symb

FALA

D 11 16-SEP-1984 01:36:46 VAX/VMS Macro V04-00 5-SEP-1984 01:16:21 [FAL.SRC]FALACTMSG.MAR

1 Page 16

		FALSD	ECODE_C	CMP ROOTINES	5-SEP-1984	01:16:21 [FAL.SRC]FALACTMSG.MAR;1	rage
			0275	632 .SBTTL	FAL\$DECODE_CMP		
			0275 0275 0275 0275	634 ;++ 635 ; Process the Ac 636 ; Update the FAB 637 ;		e which has been received and validat	ed.
			0275 0275	639 FALSDECODE_CMP::		; Entry point	
			0275 0275 0275 0275 0275	644 : or if no FOP f	the FOP field in the	FAB if this is a DAP DISCONNECT func the Access Complete message.	tion
51	44 A9 03	D0 13 30	0275	646 647 MOVL 648 BEQL	DAP\$L_FOP2(R9),R1	: Get DAP FOP bits : Branch if no bits to map	
	0166	30	027B 027E		MAP_FOP_FIELD	: Update FOP in FAB	
			027E 027E	652 : Use the CMPFUN	IC field value as the	next state table value.	
	40 A9 10 A8	90	027E	653 ; 654 655 10\$: MOVB	DAPSB_CMPFUNC(R9),-	: Store new state transition valu	ie
	0306	31	0281 0283	656 657 BRW	FALSB_VALUE(R8) EXIT_SUCCESS	Exit state with success	

FALACTMSG V04-000 FAL

Symb

DAP

DAPS

DAP

DAP

DAP

DAP

DAP

EXIT FABITABLE F

FALACTMSG V04-000

FAL

Symb

FAL

56

51

08 A7

0A A7 0C A7 10 A7 16 A7 14 A7 9A 30 E8 31

A9

52

42 A9 48 A9 4C A9 51 A9 52 A9 9A 04

B0 D0 P0 B0 B0 G 11

		5	-SEP-1984 01	:16:21	[FAL.SRC]FALACTMSG.MAR; 1
	.SBTTL	FALSDECODE_	ALL		
: Updat	ss the A e the AL	llocation me LXAB (by AID	ssage which l) with inform	nas bee	n received and validated. from this message.
FALSDEC	ODE_ALL:			; Entr	y point
Initi proce	alize the S	e appropriat AP AID field	e Allocation	XAB (i	n the FAL work area) and
Initiproce	MOVZBL BSBW BLBS BRW	DAPSB AID (REFALSINIT_ALE RO, 10S EXIT_FAILURE	LXAB	: On re: Bran	area ID value eturn R7 = address of XAB ch on success state with failure ., ignore this DAP message)
Proce	ss the D	AP ALN field	. 4 %		
	ASSUME ASSUME ASSUME ASSUME	DAPSK_ANY EDAPSK_CYL EDAPSK_LBN EDAPSK_VBN E	Q XAB\$C_CYL Q XAB\$C_LBN		
10\$:	MOVB	DAPSB_ALN(R	9),XAB\$B_ALN	(R7)	
Proces	ss the D	AP AOP field			
	MOVZBL CLRL SMAPBIT SMAPBIT SMAPBIT SMAPBIT MOVB	DAP\$B_AOP(READ) R2 DAP\$V_HRD, X2 DAP\$V_CBT2, X2 DAP\$V_CTG2, X2 DAP\$V_ONC, X2 R2, XAB\$B_AO	AB\$V_HRD KAB\$V_CBT KAB\$V_CTG AB\$V_ONC	; Clear; Map I; Map I; Map I; Map I;	DAP AOP bits r RMS AOP bits HRD bit CBT bit CTG bit DNC bit te AOP field in XAB
Proces	ss the D	AP VOL, LOC,	ALQ, BKZ, ar	d DEQ	fields.
	MOVW MOVL MOVB MOVW	DAPSW_VOL(REDAPSL_LOC(REDAPSL_ALQ2(REDAPSB_BKZ(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DEQ2(REDAPSW_DE	9),XAB\$W_VOL(9),XAB\$L_LOC(R9),XAB\$E_AL(9),XAB\$B_BKZ(R9),XAB\$Q_DE((R7) (R7) (R7) (R7)	
Proces	h paper (work and exi	t.		

FALACTMSG V04-000

- STATE TABLE ACTION ROUTINES FALSDECODE_ALL

16-SEP-1984 01:36:46 VAX/VMS Macro V04-00 5-SEP-1984 01:16:21 [FAL.SRC]FALACTMSG.MAR;1

Page 20 (11)

0360 0365 31 0365 798 799 800 0224

H 11

\$SETBIT #FAL\$V_ALLXAB,FAL\$W_RECEIVED(R8)
; Denote XAB to add to XAB chain
BRW EXIT_SUCCESS ; Exit state with success

PSEC

FALA

SABS FALS

Phas Init Comm Pass Symt Pass Symt Psec

Cros ASSE

The 1112 Ther 1042 36 p

\$25 TOTA 2114

Macr

MACE

Ther

** [

```
.SBTTL FALSDECODE_TIM
                                             Process the Date and Time message which has been received and validated. Initialize both the DATXAB and RDTXAB and update them with information from this message. Other action routines will determine which of the two XABs to
                                             ; to use (or both) depending on the function that will be performed.
                                             FALSDECODE_TIM::
                                                                                                               : Entry point
                                             ; Initialize and fill-in the Date and Time XAB.
       FC95°
48 A9
14 A7
50 A9
0C A7
58 A9
1C A7
60 A9
24 A7
42 A9
08 A7
                                                                       FALSINIT_DATXAB
DAPSQ_CDT(R9),-
XABSQ_CDT(R7)
DAPSQ_RDT(R9),-
XABSQ_RDT(R7)
DAPSQ_EDT(R9),-
XABSQ_EDT(R7)
DAPSQ_BDT(R9),-
XABSQ_BDT(R7)
DAPSW_RVN(R9),-
XABSW_RVN(R7)
                     30
70
                                                           BSBW
                                                                                                                  On return R7 = address of XAB
                                                           MOVQ
                                                                                                                  Copy creation date and time
                                                                                                                  binary value to XAB
Copy revision date and time
                     70
                                                           MOVQ
                                                                                                                    binary value to XAB
                     70
                                                                                                                  Copy expiration date and time
                                                           MOVQ
                                                                                                                    binary value to XAB
                     7D
                                                                                                                  Copy backup date and time
binary value to XAB
                                                           MOVQ
                     B0
                                                           MOVW
                                                                                                                  Store revision number value in XAB
                                             ; Initialize and fill-in the Revision Date and Time XAB.
       FC79'
50 A9
0C A7
42 A9
08 A7
                                                                       FALSINIT_RDTXAB
DAPSQ_RDT(R9),-
XABSQ_RDT(R7)
DAPSW_RVN(R9),-
XABSW_RVN(R7)
                     30
70
                                                           BSBW
                                                                                                                 On return R7 = address of XAB
                                                           MOVQ
                                                                                                                  Copy revision date and time
                                                                                                                   binary value to XAB
                     B0
                                                           MOVW
                                                                                                                  Store revision number value in XAB
                                       840
841
843
844
845
                                             ; Finish paper work and exit.
                                                                       #<<FAL$M_DATXAB>:-
    <FAL$M_RDTXAB>:-
0>,FAL$W_RECEIVED(R8)
72 A8
                                                           BISW2
                                                                                                                  Denote XABs to add to XAB chain
                           0395
0395
         01F4
                     31
                                                           BRW
                                                                        EXIT_SUCCESS
                                                                                                               Exit state with success
```

I 11

#<<DAP\$M_PROSYS>!-<DAP\$M_PROOWN>!-<DAP\$M_PROGRP>!-

<DAP\$M PROWLD>!-

0>,DAP\$W_PROMENU(R9)

for the user process if all four protection fields of the DAP

Protection message were defaulted

Branch if no fields explicitly sent

(i.e., omitted from message)

BITW

BEQL

J 11

FALACTMSG V04-000

40 A9

1E

10

B3

13

FALI VO4

; Exit state with success

FALI

BBC #FAB\$V_NAM,FAB\$L_FOP(R10)
\$SETBIT #FAB\$V_NAM,R2
MOVL R2,FAB\$L_FOP(R10)

Preserve state of NAM bit in FOP Update FOP field in FAB Exit

04DD

04DD

04 04 AA

04 AA

20\$:

30\$:

RSB

FALE VO4-

```
N 11
                                                                                                                                                                                              16-SEP-1984 01:36:46
5-SEP-1984 01:16:21
                                          - STATE TABLE ACTION ROUTINES MAP_ROP_FIELD
                                                                                                                                                                                                                                                                            VAX/VMS Macro V04-00
[FAL.SRC]FALACTMSG.MAR; 1
                                                                             .SBTTL MAP_ROP_FIELD

989

990

**

991 : This routine maps DAP ROP bits into RMS ROP bits and stores the result in 992 : the ROP field of the RAB.

993 : R1 contains the DAP bitmask on input.

995 : R2 is destroyed on output.

996 :-

997

998 MAP_ROP_FIELD:

CLRL R2

CLRL R2

CLRL R2

Entry point

Clear RMS ROP bits

Clear RMS ROP bits

Examine ROP bitmask

Examine ROP bitmask

Begin mapping if any bits are set in Branch if there are no bits to make the result in properties.
                                                             04EB
04ED
04EF
04F1
04F4
0504
                                              D4
D5
12
31
                                                                                                                               BNEW
20$
$MAPBIT DAP$V_EOF,RAB$V_EOF
$MAPBIT DAP$V_FDL,RAB$V_FDL
$MAPBIT DAP$V_UIF,RAB$V_UIF
$MAPBIT DAP$V_UIF,RAB$V_UIF
$MAPBIT DAP$V_LOA,RAB$V_LOA
$MAPBIT DAP$V_ULK,RAB$V_ULK
$MAPBIT DAP$V_TPT,RAB$V_TPT
$MAPBIT DAP$V_RAH,RAB$V_RAH
$MAPBIT DAP$V_WBH,RAB$V_WBH
$MAPBIT DAP$V_KGE,RAB$V_KGE
$MAPBIT DAP$V_KGT,RAB$V_KGT
$MAPBIT DAP$V_NLK,RAB$V_NLK
$MAPBIT DAP$V_NLK,RAB$V_NLK
$MAPBIT DAP$V_ROPBIO,RAB$V_BIO
$MAPBIT DAP$V_ROPBIO,RAB$V_BIO
$MAPBIT DAP$V_ROPBIO,RAB$V_WAT
$MAPBIT DAP$V_ROPWAT,RAB$V_WAT
$MAPBIT DAP$V_RRL,RAB$V_RRL
                                                                                   1002 108:
                                                                                                                                                                                                                                                           Map EOF bit
                                                                                                                                                                                                                                                           Map FDL bit
Map UIF bit
                                                                                   1004
                                                                                                                                                                                                                                                            Map LOA bit
                                                                                                                                                                                                                                                           Map ULK bit
                                                                                                                                                                                                                                                            Map TPT bit
                                                                                                                                                                                                                                                            Map RAH bit
                                                                                                                                                                                                                                                            Map WBH bit
                                                                                                                                                                                                                                                            Map KGE bit
                                                                                                                                                                                                                                                            Map KGT bit
                                                                                                                                                                                                                                                            Map NLK bit
                                                                                                                                                                                                                                                            Map RLK bit
                                                                                                                                                                                                                                                            Map BIO bit
                                                                                                                                                                                                                                                            Map LIM bit
                                                                                                                                                                                                                                                            Map NXR bit
                                                                                   1018
                                                                                                                                                                                                                                                            Map WAT bit
                                                                                                                                                                                                                                                           Map RRL bit
                                                                                   1020
                                                                                                                                                                                                                                                           Map REA bit
                                                                                                                                                                                                                                                           Update ROP field in RAB
                                                                                                    20$:
04 AB
                             52
                                                                                                                                  RSB
```

FALACTMSG V04-000			- ST STAT	ATE TA	BLE AC	TION RO	UTINES	B 12	16-SEP-1984 5-SEP-1984	01:36:46	VAX/VMS Macro V04-00 [FAL.SRC]FALACTMSG.MAR;1	Page	27
		50	D4 05	0589 0589 0589 0589 0589 0589 0588 0580	1024 1025 1026 1027 1028 1029 1030 1031 1032 1033	EXIT_FA	.SBTTL state wi ILURE: CLRL RSB		EXIT ROUTINES	; Ent	ry point gnal state transition failure it to state table manager		
	50	01	DO 05	058C 058C 058C 058C 058C 058F 0590 0590	1034 1035 1036 1037 1038 1039 1040 1041	EXIT_SU	State wi	#1,R0	ess.		try point gnal state transition success it to state table manager d of module		

FALE VO4-

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	FALACTMSG Symbol table	- STATE TABLE A		16-SEP-1984 01:36:46 VAX/VMS Macro V04-00 5-SEP-1984 01:16:21 [FAL.SRC]FALACTMSG.MAR;1
	\$\$COUNT DAP\$B_ACCFUNC DAP\$B_ACCOPT DAP\$B_ALN DAP\$B_ALN DAP\$B_AOP DAP\$B_BITCNT DAP\$B_BKS DAP\$B_BKS DAP\$B_BKZ DAP\$B_BKS DAP\$B_BKS DAP\$B_BCONFUNC DAP\$B_CONFUNC DAP\$B_CONFUNC DAP\$B_CONFUNC DAP\$B_CONFUNC DAP\$B_DATATYPE DAP\$B_DATATYPE DAP\$B_DAP\$B_DCODE_MAC DAP\$B_DCODE_MAC DAP	= 00000040 00000041 00000044 00000045 00000050 00000050 00000050 00000040 00000040 00000040 00000040 000000	DAPSK BLK VBN DAPSK CYL DAPSK CYL DAPSK CYL DAPSK CYL DAPSK ECONUM V DAPSK ECONUM V DAPSK FIX DAPSK LADAD DAPSK REY ACC DAPSK REY ACC DAPSK RESQ ACC DAPSK SEQ ACC DAPSK SEQ ACC DAPSK STMCR USROW USR	= 000000001 = 00000001 = 00000001 = 00000001 = 00000001 = 00000001 = 00000001 = 00000001 = 00000002 = 00000001 = 00000002 = 00000000000000000000000000
-				

FALE VO4

FALACTMSG Symbol table	- STATE TABLE ACTION	ROUTINES E 12	16-SEP-1984 01:36:46 VAX/VMS Macro V04-00 5-SEP-1984 01:16:21 [FAL.SRCJFALACTMSG.MAR;1	Page 30 (17)
DAPSW_DEQ1 DAPSW_DEQ2 DAPSW_DISPLAY1 DAPSW_DISPLAY2 DAPSW_FFB DAPSW_FFB DAPSW_FFB DAPSW_MRS DAPSW_MRS DAPSW_MRS DAPSW_POS TMP DAPSW_POS TMP DAPSW_PROGRP DAPSW_PROWN DAPSW_PROWN DAPSW_PROWN DAPSW_PROWN DAPSW_PROWLD DAPSW_FROMENU DAPSW_FROMEN	00000054 00000052 00000044 00000054 00000072 00000046 00000070 0000004A 0000004C 0000004A 00000052 00000052 00000052 000000580 000000580 00000040 000000580 000000080 00000080 00000080 00000080 000000	FABSV-EXE FABSV-FIN FABSV-FIN FABSV-MXV FABSV-NEF FABSV-NIL FABSV-NIL FABSV-POS FABSV-	= 000000007 = 000000001 = 00000001 = 00000001 = 00000008 = 00000002 = 00000008 = 00000007 = 00000008 = 00000007 = 00000008 = 00000000000000000000000000	

FALE VO4

FALACTMSG Symbol table	- STATE TABLE	ACTION ROUTI	NES F 12	16-SEP-1984 01:3 5-SEP-1984 01:1	36:46 VAX/VMS 16:21 [FAL.SR	Macro V04-00 CJFALACTMSG.MAR;1	Page	31 (17)
FALSDECODE_TIM FALSINIT_ACLXAB FALSINIT_DATXAB FALSINIT_KEYXAB FALSINIT_PROXAB FALSINIT_ROTXAB FALSINIT_ROTXAB FALSK KEYNAM	00000368 RG ******* X ******* X ******* X	02	ALST_FALLOG ALST_FILESPEC ALST_KEYBUF ALST_MBXBUF ALST_PRTBUF1 ALST_PRTBUF2	2	00001C00 00000400 00000900 00000700 00001980 00001800 00001800 00000600 00001600			
FALSINIT_PROXAB FALSINIT_RDTXAB FALSK_KEYNAM FALSLOG_REQNAM FALSLOG_REQNAM2 FALSL_ACLXAB FALSL_ALLXABINI FALSL_CHAIN_NXT FALSL_DATXAB FALSL_FAB FALSL_FAB FALSL_FAB2 FALSL_FHCXAB FALSL_FOP	= 00000020 00002000 ******* X 00000000 0000074 0000007C 00000320 00000320 00000200 00000800	02 02	FALST RESULT FALST RESULT2 FALST SYSNET FALST VOLNAME FALSUNS KEY FALSV ALLXAB FALSV ATT MSG FALSV BLK IO FALSV CNF MSG FALSV DIS CRC		******	x 02		
FALSL_FHCXAB FALSL_FOP FALSL_KEYNAM FALSL_KEYXAB FALSL_KEYXABINI FALSL_NAM FALSL_NAM FALSL_NAM2 FALSL_NUMBER FALSL_PROXAB FALSL_RAB FALSL_RAB FALSL_RCVBUF FALSL_RDTXAB FALSL_RMS_PTR	00000000 000007C 00000320 00000200 00000800 000002F4 000001F8 00001C00 00001000 0000078 00000294 00000850 000003FC 000003FC 000003B0 0000005C 000003B0 000003A4 000003A4		ALSV DIS CRC ALSV DIS MBK ALSV FTM ALSV KEYXAB ALSV LAST MSG ALSV PROXAB ALSV USE DBS ALSV USE SC1 ALSV USE SC2 ALSV USE SYS ALSV USE VER		= 00000001 = 000000000 = 00000000000000000000000			
FALSL_PROXAB FALSL_RAB FALSL_RCVBUF FALSL_RDTXAB FALSL_RMS_PTR FALSL_STB FALSL_SUMXAB	0000034C 00000250 0000005C 000003B0 000006C 000000C0 000003A4		ALSW DAPBUFSI	7	= 0000003D = 0000003A = 0000003B = 0000000A 0000001A 00000070 0000001C			
FALSL_RDTXAB FALSL_RMS_PTR FALSL_STB FALSL_SUMXAB FALSL_TEMP FALSL_USE_SC1 FALSL_USE_SC2 FALSL_USE_VER FALSM_DATXAB FALSM_RDTXAB FALSQ_BLD FALSQ_BLD FALSQ_FALLOG FALSQ_FALLOG	8A00000		FALSW_QIOBUFSI FALSW_RECEIVED FALSW_USE_DBS FALSW_USE_SYS (EY_FIELD (RF_FIELD LIBSCVT_OTB MAP_FOP_FIELD	2	00000018 00000072 0000000A0 000000A2 000001FE R	x 02 02 02 02 02		
FALSQ_MBX FALSQ_MBXIOSB FALSQ_RCV	000000AC 000000AC 00000004 = 00000010 00000050 00000088 00000090 00000030 00000030 00000040 00000020 00000044 00000080 00000080 00000048 00000048		MAP_FOP_FIELD MAP_ROP_FIELD RAB\$B_KRF RAB\$B_KSZ RAB\$B_RAC RAB\$C_KEY RAB\$C_SFQ		00000444 R 000004EB R = 00000035 = 0000001E = 00000001 = 00000002 = 000000000 = 000000000 = 000000000 = 00000000	02		
FALSQ RMS FALSQ STATE CTX FALSQ STATE CTX FALSQ SYSNET FALSQ TEMP FALSQ VOLNAME FALSQ XMT FALSQ XMTIOSB FALSTRANSMIT	****** Y	02	RAP ROP FIELD RABSB KRF RABSB KRF RABSC KEY RABSC KEY RABSC SEQ RABSL BKT RABSL KBF RABSL KBF RABSV BIO RABSV FOL RABSV KGE RABSV KGE RABSV LIM		= 00000038 = 00000030 = 00000004 = 00000008 = 00000008 = 00000006			
FALST_DAP FALST_DIRNAME FALST_EXPAND FALST_EXPAND2	00000100 00001F00 00000500 00000A00		RABSV-KGT RABSV-LIM RABSV-LOA		= 00000015 = 00000016 = 0000000E = 0000000D			

FAL

Sym DAP DAP

FAL

- STATE TABLE ACTION ROUTINES

16-SEP-1984 01:36:46 5-SEP-1984 01:16:21 VAX/VMS Macro V04-00 [FAL.SRC]FALACTMSG.MAR; 1

Page

Psect synopsis

PSECT name PSECT No. Allocation Attributes NOPIC NOPIC NOPIC ABS 00000000 LCL NOSHR NOEXE NORD LCL NOSHR EXE RD LCL NOSHR EXE RD ABS ABS USR CON NOVEC BYTE 00002000 \$ABS\$ USR CON WRT NOVEC BYTE FAL\$CODE USR RD NOWRT NOVEC BYTE

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time	
Initialization .	37	00:00:00.05	00:00:01.61	
Command processing Pass 1	142	00:00:00.36	00:00:02.39	
Symbol table sort Pass 2	100	00:00:01.65	00:00:04.98	
Symbol table output	192 59	00:00:02.86	00:00:10.29	
Psect synopsis output Cross-reference output	1	00:00:00.03	00:00:00.73	
Assembler run totals	883	00:00:19.00	00:01:12.55	

The working set limit was 1950 pages.
111221 bytes (218 pages) of virtual memory were used to buffer the intermediate code.
There were 90 pages of symbol table space allocated to hold 1637 non-local and 110 local symbols.
1042 source lines were read in Pass 1, producing 17 object records in Pass 2.
36 pages of virtual memory were used to define 35 macros.

Macro library statistics !

Macro library name

FALACTMSG

Psect synopsis

Macros defined

\$255\$DUA28:[FAL.OBJ]FAL.MLB;1
\$255\$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)

20 12 32

2114 GETS were required to define 32 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$: FALACTMSG/OBJ=OBJ\$: FALACTMSG MSRC\$: FALACTMSG/UPDATE=(ENH\$: FALACTMSG)+LIB\$: FAL/LIB

Sym

FAL

FAL

PSE ---

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